

DATA STORAGE UNIT SECURING DEVICE**FIELD**

[0001] The subject matter herein generally relates to securing devices, and more particularly to a data storage unit securing device.

BACKGROUND

[0002] With the development of science and technology, a computer needs to maintain different sizes of data storage units.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] Many aspects of the embodiments can be better understood with reference to the following drawings. The components in the drawings are not necessarily drawn to scale, the emphasis instead being placed upon clearly illustrating the principles of the embodiments. Moreover, in the drawings, like reference numerals designate corresponding parts throughout the several views.

[0004] FIG. 1 is an isometric, exploded view of a data storage unit securing device and two data storage units.

[0005] FIG. 2 is an isometric, assembled view of a data storage unit securing device and two first data storage units of FIG. 1.

[0006] FIG. 3 is a cross sectional view of FIG. 2, taken along a line III-III.

[0007] FIG. 4 is an isometric, assembled view of a data storage unit securing device and two second data storage units of FIG. 1.

DETAILED DESCRIPTION

[0008] It will be appreciated that for simplicity and clarity of illustration, where appropriate, reference numerals have been repeated among the different figures to indicate corresponding or analogous elements. In addition, numerous specific details are set forth in order to provide a thorough understanding of the embodiments described herein. However, it will be understood by those of ordinary skill in the art that the embodiments described herein can be practiced without these specific details. In other instances, methods, procedures, and components have not been described in detail so as not to obscure the related relevant feature being described. Also, the description is not to be considered as limiting the scope of the embodiments described herein. The drawings are not necessarily to scale and the proportions of certain parts have been exaggerated to better illustrate details and features of the present disclosure.

[0009] The term “substantially” is defined to be essentially conforming to the particular dimension, shape, or other feature that the term modifies, such that the component need not be exact. For example, “substantially cylindrical” means that the object resembles a cylinder, but can have one or more deviations from a true cylinder. The term “comprising” when utilized, means “including, but not necessarily limited to”; it specifically indicates open-ended inclusion or membership in the so-described combination, group, series and the like.

[0010] FIG. 1 illustrates one embodiment of a data storage unit securing device 100. The data storage unit securing device 100 is configured to fasten a plurality of data storage units 10 (two data storage units 10 are used as an example and are shown in each FIG.). The data storage unit securing

device 100 includes a bracket 20 and a securing module 50 rotatably installed on the bracket 20.

[0011] The plurality of data storage units 10 can include two first data storage units 11 (shown in FIG. 2) and two second data storage units 12 (shown in FIG. 4). The length and the width of the first data storage unit 11 are substantially equal to the length and the width of the second data storage unit 12. The thickness of the first data storage unit 11 is less than the thickness of the second data storage unit 12. In at least one embodiment, each data storage unit 10 is solid state drive (SSD).

[0012] The bracket 20 includes a bottom plate 30 and two side plates 40. The two side plates 40 are perpendicularly connected to two sides of the bottom plate 30. Each end of the bottom plate 30 is equipped with two stopper blocks 31. The middle portion of the bottom plate 30 is equipped with a pivot portion 32. The stopper blocks 31 of each end of the bottom plate 30 and the pivot portion 32 cooperatively define a receiving portion 33. The data storage unit 10 can be received in the receiving portion 33. The pivot portion 32 includes two first stopper plates 321 and a second stopper plate 322 located between the two first stopper plates 321. A pivot hole 325 is defined in each end of the second stopper plate 322 and each first stopper plate 321.

[0013] Each end of the bottom plate 30 is equipped with a securing plate 35 perpendicularly connected with the bottom plate 30. A notch 351 is defined in each end away from the bottom plate 30. The securing plate 35 is equipped with two first hooks 352 extending away from the pivot portion 32 and two second hooks 353 extending towards the pivot portion 32. The two second hooks 353 are located between the two first hooks 352.

[0014] The securing module 50 includes a first resilient member 60 and a second resilient member 70. The first resilient member 60 includes two substantially parallel first resilient rods 61. Each tail end of the first resilient rod 61 is extended upwards. A first latch rod 62 is connected between the tail end of the two first resilient rods 61. A first folding piece 611 extends from each end of the first resilient rod 61 away from the first latch rod 62. The first folding piece 611 is configured to be inserted into the pivot hole 325 of the two first stopper plates 321. A distance between the two first resilient rods 61 is greater than a distance between the pivot holes 325 of two first stopper plates 321.

[0015] The second resilient member 70 includes two substantially parallel second resilient rods 71. Each tail end of the second resilient rod 71 is extended upwards. A second latch rod 72 is connected between the tail end of the two second resilient rods 71. A second folding piece 711 extends from each end of the second resilient rod 71 away from the second latch rod 72. The second folding piece 711 is configured to be inserted into the two pivot holes 325 of the second stopper plate 322. A distance between the two second resilient rods 71 is less than a distance between the two pivot holes 325 of the second stopper plates 322. A distance between the two first resilient rods 61 is greater than a distance between the two pivot holes 325 of the second stopper plate 322.

[0016] When the data storage unit securing device 100 is assembled, as illustrated in FIG. 2, the two first resilient rods 61 are close to each other and elastically constricted. The two first folding pieces 611 are respectively inserted into the two pivot holes 325 of the two first stopper plates 321. The two first resilient rods 61 are elastically rebounded and the